Amendment
Application No. 10/708,258
Attorney Docket No. 072160

REMARKS

(1)   Claims 5-34, 40-60 and 64-87 are pending. Claims 5 and 40 have been amended in this Response. Claims 1-4, 35-39 and 61-63 have been cancelled. Claims 64-72 and 79-87 were allowed. No new claims have been added.

(2)   Claim 35 was rejected under 35 U.S.C. §112, second paragraph. In this Response, claim 35 has been cancelled, so the rejection has been made moot.

(3)   Claims 1, 2, 5-8, 36, 37, 40-43 and 61 were rejected under 35 U.S.C. §103(a) as being unpatentable over Angi et al. (USP 4,659,951) in view of Schips et al. (USP 5,803,707). Claims 3 and 38 were rejected under 35 U.S.C. §103(a) as being unpatentable over Angi et al. (USP 4,659,951) in view of Schips et al. (USP 5,803,707) and further in view of Wang (USP 5,988,979). Claims 4, 9-11, 26-33, 35, 39, 44, 45 and 53-60 were rejected under 35 U.S.C. §103(a) as being unpatentable over Angi et al. (USP 4,659,951) in view of Schips et al. (USP 5,803,707) and further in view of Pauly (USP 5,741,123). Claim 34 was rejected under 35 U.S.C. §103(a) as being unpatentable over Angi et al. (USP 4,659,951) in view of Schips et al. (USP 5,803,707) in view of Pauly (USP 5,741,123) and further in view of Wang (USP 5,988,979). Claims 23-25 and 52 were rejected under 35 U.S.C. §103(a) as being unpatentable over Angi et al. (USP 4,659,951) in view of Schips et al. (USP 5,803,707) in view of Pauly (USP 5,741,123) and further in view of Muszynski (USP 5,814,908).

- 22 -

Amendment
Application No. 10/708,258
Attorney Docket No. 072160

(i)   In this Response, claims 1-4, 35-39 and 61 have been cancelled, so the rejection

on these claims has been made moot.

(ii)   Claims 5 and 40 have been amended to clarify the invention. The Examiner

combines Angi et al. with Schips et al. However, Schips et al. disclose a slide-in cross current

ventilator (title of the invention). In the cross current ventilator disclosed by Schips et al., the air

flows downward. That is, in Fig. 1 of Schips et al., the air inhaled from the area above the

impeller 3 (the area near number 15) to the area below the impeller 3 (the area near number 13).

In other words, the air flows in a predetermined direction across the rotation axis of the impeller

3 in the cross current ventilator.

On the other hand, Angi et al. disclose a centrifugal fan 16. The centrifugal fan inhales

air from the center of the rotation axis of the impeller and flows outwardly in the radius direction

of the centrifugal fan. The air does not flow across the rotation axis of the impeller.

Schips et al. teach that a diameter-length ratio of 1:5 permits to achieve very good

operational characteristics (col. 11, lines 43-45), as stated by the Examiner. However, the air

flow in the Angi's centrifugal fan is completely different from that in the Schips' cross current

ventilator. For example, the air flow direction, the static pressure and the air volume are different

- 23 -

Amendment
Application No. 10/708,258
Attorney Docket No. 072160

between the cross current ventilator and the centrifugal fan. Thus, one skilled in the art does not consider that the teaching of Schips is applicable to the Angi's centrifugal fan.

Thus, the Schips reference is irrelevant to Angi et al., and claims 5 and 40 are not obvious over the cited references. Reconsideration of the rejection on amended claims 5 and 40 is respectfully requested.

Claims 6-34 and 41-60 directly or indirectly depend on claim 5 or 40. Thus, claims 6-34 and 41-60 should be allowed.

(4)   Claims 12-22, 46-51 and were withdrawn from further consideration. However, when generic claims 5 and 40 are allowed, claims 12-22 and 46-51 should be allowed.
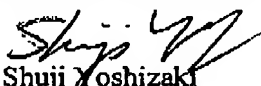
Claims 73-78 were withdrawn from further consideration. However, because generic claim 67 was allowed, claims 73-78 should be allowed.

(5)   In view of the aforementioned amendments and accompanying remarks, Applicants submit that that the claims, as herein amended, are in condition for allowance. Applicants request such action at an early date. If the Examiner believes that this application is not now in condition for allowance, the Examiner is requested to contact Applicants' undersigned

- 24 -

Amendment
Application No. 10/708,258
Attorney Docket No. 072160

representative at the telephone number indicated below to arrange for an interview to expedite

the disposition of this case. If this paper is not timely filed, Applicants respectfully petition for

an appropriate extension of time. The fees for such an extension or any other fees that may be

due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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- 25 -

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Expires: July 7, 2010

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